



UNITED STATES DEPARTMENT OF COMMERCE  
Patent and Trademark Office

**NOTICE OF ALLOWANCE AND ISSUE FEE DUE**

MMC2/0925

GEORGE O SAILE  
20 MCINTOSH DRIVE  
POUGHKEEPSIE NY 12603

| APPLICATION NO.       | FILING DATE                            | TOTAL CLAIMS | EXAMINER AND GROUP ART UNIT | DATE MAILED   |
|-----------------------|--|--------------|-----------------------------|---------------|
| 09/258,911            | 03/01/99                               | 012          | LEE, C                      | 2825 09/25/00 |
| First Named Applicant | LIN, 35 USC 154(b) term ext. = 0 Days. |              |                             |               |

TITLE OF INVENTION HIGH PERFORMANCE SUB-SYSTEM DESIGN AND ASSEMBLY

| ATTY'S DOCKET NO. | CLASS-SUBCLASS | BATCH NO.   | APPLN. TYPE | SMALL ENTITY | FEE DUE  | DATE DUE |
|-------------------|----------------|-------------|-------------|--------------|----------|----------|
| 2                 | MSLIN98-004    | 438-015.000 | S71 UTILITY | YES          | \$605.00 | 12/26/00 |

**THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION ON THE MERITS IS CLOSED.**

**THE ISSUE FEE MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED.**

**HOW TO RESPOND TO THIS NOTICE:**

I. Review the SMALL ENTITY status shown above.

If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

- A. If the status is changed, pay twice the amount of the FEE DUE shown above and notify the Patent and Trademark Office of the change in status, or
- B. If the status is the same, pay the FEE DUE shown above.

If the SMALL ENTITY is shown as NO:

- A. Pay FEE DUE shown above, or
- B. File verified statement of Small Entity Status before, or with, payment of 1/2 the FEE DUE shown above.

II. Part B-Issue Fee Transmittal should be completed and returned to the Patent and Trademark Office (PTO) with your ISSUE FEE. Even if the ISSUE FEE has already been paid by charge to deposit account, Part B Issue Fee Transmittal should be completed and returned. If you are charging the ISSUE FEE to your deposit account, section "4b" of Part B-Issue Fee Transmittal should be completed and an extra copy of the form should be submitted.

III. All communications regarding this application must give application number and batch number. Please direct all communications prior to issuance to Box ISSUE FEE unless advised to the contrary.

**IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.**

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*Ad*

| APPLICATION NO. | FILING DATE | FIRST NAMED INVENTOR | ATTORNEY DOCKET NO. |
|-----------------|-------------|----------------------|---------------------|
| 09/258,911      | 03/01/99    | LIN                  | M MSLIN98-004       |

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EXAMINER

LEE, C

ART UNIT

PAPER NUMBER

2825

DATE MAILED:

09/25/00

**Please find below and/or attached an Office communication concerning this application or proceeding.**

**Commissioner of Patents and Trademarks**

# Notice of Allowability

Application No.  
09/258,911

Applicant(s)  
M. S. Lin

Examiner  
Calvin Lee

Group Art Unit  
2825



All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance and Issue Fee Due or other appropriate communication will be mailed in due course.

☒ This communication is responsive to Election dated July 19, 2000

☒ The allowed claim(s) is/are 26-37

☒ The drawings filed on Mar 1, 1999 are acceptable.

☐ Acknowledgement is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d).

☐ All ☐ Some\* ☒ None of the CERTIFIED copies of the priority documents have been

☐ received.

☐ received in Application No. (Series Code/Serial Number) \_\_\_\_\_

☐ received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

\*Certified copies not received: \_\_\_\_\_

☐ Acknowledgement is made of a claim for domestic priority under 35 U.S.C. § 119(e).

A SHORTENED STATUTORY PERIOD FOR RESPONSE to comply with the requirements noted below is set to EXPIRE **THREE MONTHS** FROM THE "DATE MAILED" of this Office action. Failure to timely comply will result in ABANDONMENT of this application. Extensions of time may be obtained under the provisions of 37 CFR 1.136(a).

☐ Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL APPLICATION, PTO-152, which discloses that the oath or declaration is deficient. A SUBSTITUTE OATH OR DECLARATION IS REQUIRED.

☐ Applicant MUST submit NEW FORMAL DRAWINGS

☐ because the originally filed drawings were declared by applicant to be informal.

☐ including changes required by the Notice of Draftsperson's Patent Drawing Review, PTO-948, attached hereto or to Paper No. \_\_\_\_\_

☐ including changes required by the proposed drawing correction filed on \_\_\_\_\_, which has been approved by the examiner.

☐ including changes required by the attached Examiner's Amendment/Comment.

**Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the reverse side of the drawings. The drawings should be filed as a separate paper with a transmittal letter addressed to the Official Draftsperson.**

☐ Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

Any response to this letter should include, in the upper right hand corner, the APPLICATION NUMBER (SERIES CODE/SERIAL NUMBER). If applicant has received a Notice of Allowance and Issue Fee Due, the ISSUE BATCH NUMBER and DATE of the NOTICE OF ALLOWANCE should also be included.

## Attachment(s)

☒ Notice of References Cited; PTO-892

☒ Information Disclosure Statement(s), PTO-1449, Paper No(s). 2

☐ Notice of Draftsperson's Patent Drawing Review, PTO-948

☐ Notice of Informal Patent Application, PTO-152

☐ Interview Summary, PTO-413

☒ Examiner's Amendment/Comment

☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material

☒ Examiner's Statement of Reasons for Allowance

  
MATTHEW SMITH  
SUPERVISORY PATENT EXAMINER  
TECHNOLOGY CENTER 2800

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## DETAILED ACTION

### *Examiner's Amendment*

1. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37.CFR 1.312. To ensure consideration of such an amendment, it **MUST** be submitted no later than the payment of the issue fee.

#### IN THE CLAIM:

Canceled non-elected claims 1-25.

2. Authorization for this examiner's amendment was given in a telephone interview with Stephen B. Ackerman on September 18, 2000. After discussion with the attorney to cancel the claims, the examiner discovered the following minor grammatical problems with the claims (also with the drawn and the specification).

Delete "a" (both occurrences) before "plural" (in claim 26, lines 4 and 5)

Replace "chip" with --chips-- (in claim 26, lines 5 and 6)

Replace "the" (both occurrences) with --a-- (in claim 26, line 13)

Replace "one of one" with --a-- (in claim 26, line 33)

Insert "," after "wafer" (in claim 26, line 34)

Insert "select" before "switch" (in claim 35, line 1)

Replace "claim 32" with --claim 35-- (in claim 36, line 1)

Insert "a" before "PMOS" (in claim 36, line 2)

Replace "claim 24 wherein in the mode switch" with --claim 26 wherein the mode select switch-- (in claim 37, line 1)

IN THE DRAWN:

In Fig. 3, *missing a solid line* from the interface (360) to the I/O pad (370) (enclosed is a copy of the modified Fig. 3)

IN THE SPECIFICATION:

Replace "the second integrated circuit chip 310" with --the first integrated circuit chip 305-- (page 13, line 6)

*Allowable Subject Matter*

3. Claims 26-37 are allowed.
4. The following is a statement of reasons for the indication of allowable subject matter:

The closest prior art, *US 5,807,791 to Bertin et al.*, fails to disclose simultaneously forming an internal interface circuit, a mode select circuit, and a mode selector between a first integrated circuit chip located in a first wafer and a second integrated circuit chip located in a second wafer. *Bertin et al.* also fails to disclose contacting, stimulating and examining a response of test circuits on the first wafer and input/output interface circuits on the second wafer.

Any inquiry concerning this communication from the examiner should be directed to Examiner Calvin Lee at (703) 306-5854. The examiner can normally be reached on Monday through Thursday from 7:00AM to 5:00PM. If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor *Matthew Smith* can be reached on (703) 308-1323.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the Group receptionist whose telephone number is (703) 308-0956 or (703) 306-3329. The fax phone number for the Group is (703) 308-7722.

CL

September 25, 2000



MATTHEW SMITH  
SUPERVISORY PATENT EXAMINER  
TECHNOLOGY CENTER 2800